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PLUS 2D Nesting Software Optimization Report

General Details:

Project Name	
File Name	N:/Plus2D/Samples/nonrecwd.plj
Job No	
Customer	
CustomerId	
Created By	
Approved By	
Date	Wednesday, July 21, 2010
Material	mdf
Thk	12
PLUS 2D Version No.	8.68

Stock Details:

Id	Length	Width	Cost	Qty	Remarks
9 x 6	2743	1830	2409.45	100	
8 x 4	2440	1220	1428.86	100	
7 x 6	2134	1830	1874.51	100	

Part Details:

Name	Fin. Length	Fin. Width	Rotn	Qty	Type	Remarks
1	740	600	1	30	Rect	
2	1200	750	1	10	Rect	
3	900	750	1	5	Rect	
4	600	600	1	4	Rect	
5	900	600	1	5	Rect	
TT-1	1500	1500	1	5	DXF	
TT-2	1060.66	750	1	5	DXF	

Summary of Optimization Results:

Summary of Optimization Results:	
Grinding Margin	0
Saw Width	25
Number of Layouts	8
Number of Stock Used	12
Total Utilization	83.45 %
Total Parts Required	64
Total Parts Nested	64
Reusable Offcuts	11
Total Stock Area	58.01
Total Part Area	39.85
Offcut Area	8.56
Scrap Area	9.6
Total Stock Weight	278.44
Total Part Weight	191.27
Total Offcut Weight	41.09
Total Scrap Weight	46.08
ScrapWt/PartWt	24.09 %

Summary of Layouts:

No	Name	Qty	Util%	Cost	Parts	Offcut Qty - Size
1	9 x 6	1	81.58	2409.45	6	0
2	9 x 6	1	71.43	2409.45	6	0
3	9 x 6	2	70.96	4818.90	14	0
4	7 x 6	1	75.93	1874.51	5	1,[2134X430]
5	9 x 6	1	91.14	2409.45	7	1,[2743X280]
6	9 x 6	3	90.90	7228.35	21	1,[2743X280]
7	7 x 6	1	80.22	1874.51	1	2,[1500X305],[609X1830]
8	9 x 6	2	92.04	4818.90	4	2,[2278.74X305],[439.26X1830]

Parts Summary Table:

No	Name	Size (L x W)	Nested (Required)	Area	Weight	Remarks
1	1	740 x 600	30 (30)	13.32	1246.75	
2	2	1200 x 750	10 (10)	9	842.4	
3	3	900 x 750	5 (5)	3.38	315.9	
4	4	600 x 600	4 (4)	1.44	134.78	
5	5	900 x 600	5 (5)	2.7	252.72	
6	TT-1	1500 x 1500	5 (5)	7.8	730.41	
7	TT-2	1060.66 x 750	5 (5)	2.21	206.76	
		Total	64 (64)	39.85	3729.73	

Stocks used details:

No	Name	Length	Width	Avail Qty	Utl Qty	Area
1	9 x 6	2743	1830	100	10	50.2
3	7 x 6	2134	1830	100	2	7.81
	Total				12	58.01

Offcut Details :

Id	Length	Width	Cost	Qty	Area
Off_4_1	2134	430	440.46	1	0.92
Off_5_1	2743	280	368.66	1	0.77
Off_6_1	2743	280	368.66	3	2.3
Off_7_1	1500	305	219.6	1	0.46
Off_7_2	609	1830	534.95	1	1.11
Off_8_1	2278.74	305	333.61	2	1.39
Off_8_2	439.26	1830	385.84	2	1.61
Total				11	8.56

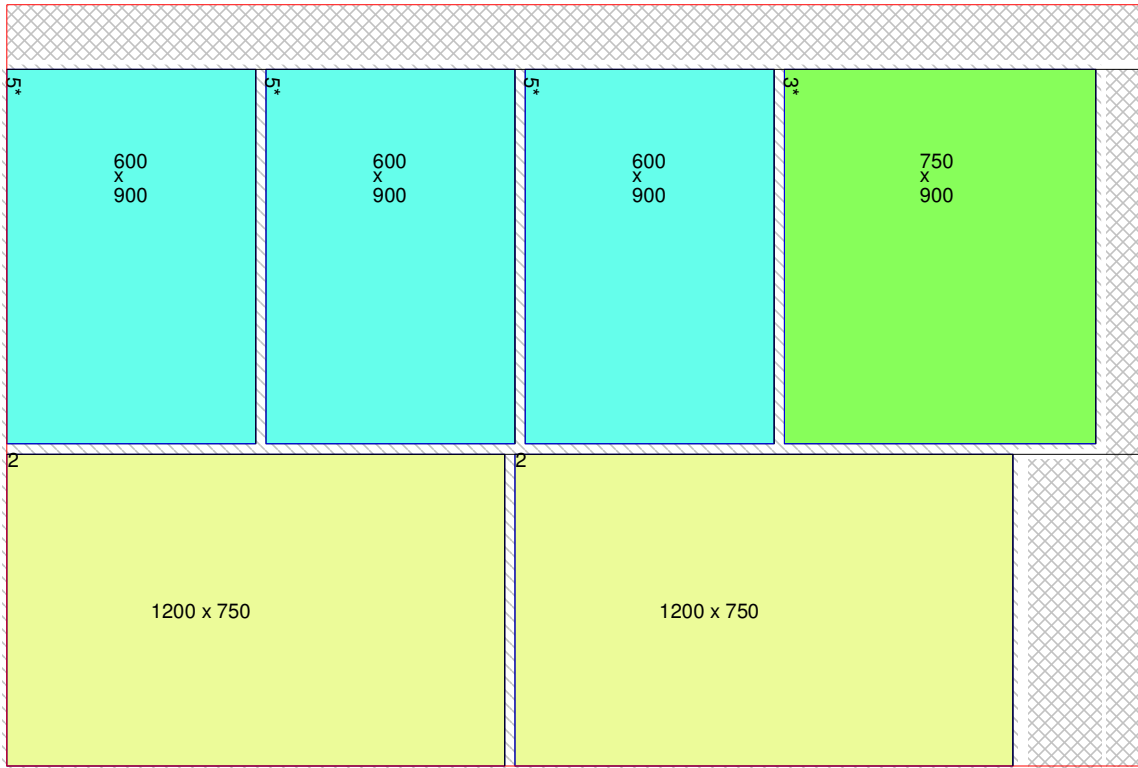
Parts Cut List:

Name	Length	Width	Qty	Remarks Layout-Qty
1	740	600	30	6-15/5-3/4-1/3-10/2-1
2	1200	750	10	6-3/5-1/3-2/2-2/1-2
3	900	750	5	6-3/5-1/1-1
4	600	600	4	5-1/4-2/2-1
5	900	600	5	5-1/2-1/1-3
TT-1	1500	1500	5	8-4/7-1
TT-2	1060.66	750	5	4-2/3-2/2-1

Detailed table about Stocks & Parts:

No	Stk Length	Stk Width	Stk Area	Prt Length	Prt Width	Qty	Part Area	Name
1	2743	1830	5.02					
				1200	750	2	1.8	2
				900	750	1	0.68	3
				900	600	3	1.62	5
			81.58 %				4.09	
2	2743	1830	5.02					
				740	600	1	0.44	1
				1200	750	2	1.8	2
				600	600	1	0.36	4
				900	600	1	0.54	5
				1060.66	750	1	0.44	TT-2
			71.43 %				3.59	
3	2743	1830	5.02					
				740	600	5	2.22	1
				1200	750	1	0.9	2
				1060.66	750	1	0.44	TT-2
			70.96 %				3.56	
4	2134	1830	3.91					
				740	600	1	0.44	1
				600	600	2	0.72	4
				1060.66	750	2	0.88	TT-2
			75.93 %				2.05	
5	2743	1830	5.02					
				740	600	3	1.33	1
				1200	750	1	0.9	2
				900	750	1	0.68	3
				600	600	1	0.36	4
				900	600	1	0.54	5
			91.14 %				3.81	
6	2743	1830	5.02					
				740	600	5	2.22	1
				1200	750	1	0.9	2
				900	750	1	0.68	3
			90.90 %				3.79	
7	2134	1830	3.91					
				1500	1500	1	1.56	TT-1
			80.22 %				1.56	
8	2743	1830	5.02					
				1500	1500	2	3.12	TT-1
			92.04 %				3.12	

Details of each Layout:



Layout 1 of 8(Stock:9 x 6 Dim:2743 x 1830 Qty:1)

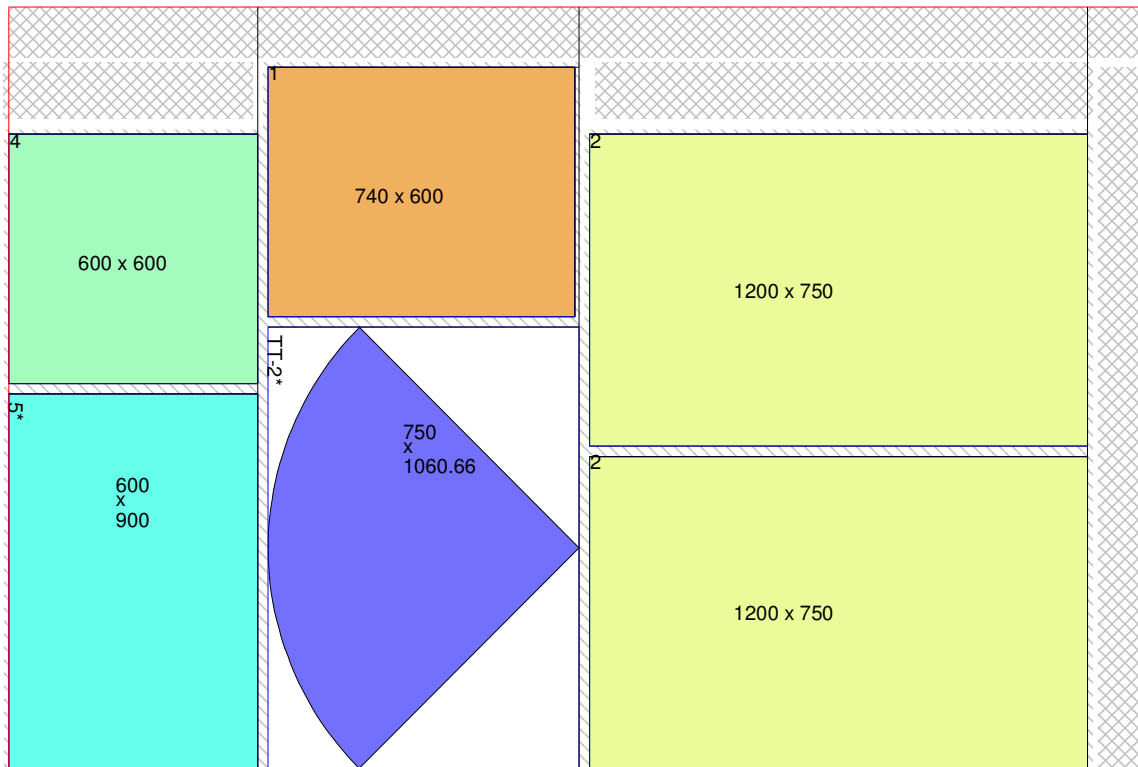
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
2	1200	750	2	1.8	2	0/10	
3	900	750	1	0.68	1	0/5	
5	900	600	3	1.62	3	0/5	
Total			6	4.09	6		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	750	2743	750
2	1200	0	1200	750
3	2425	0	2425	750
4	0	1675	2743	1675
5	600	775	600	1675
6	1225	775	1225	1675
7	1850	775	1850	1675

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
8	2625	775	2625	1675



Layout 2 of 8(Stock:9 x 6 Dim:2743 x 1830 Qty:1)

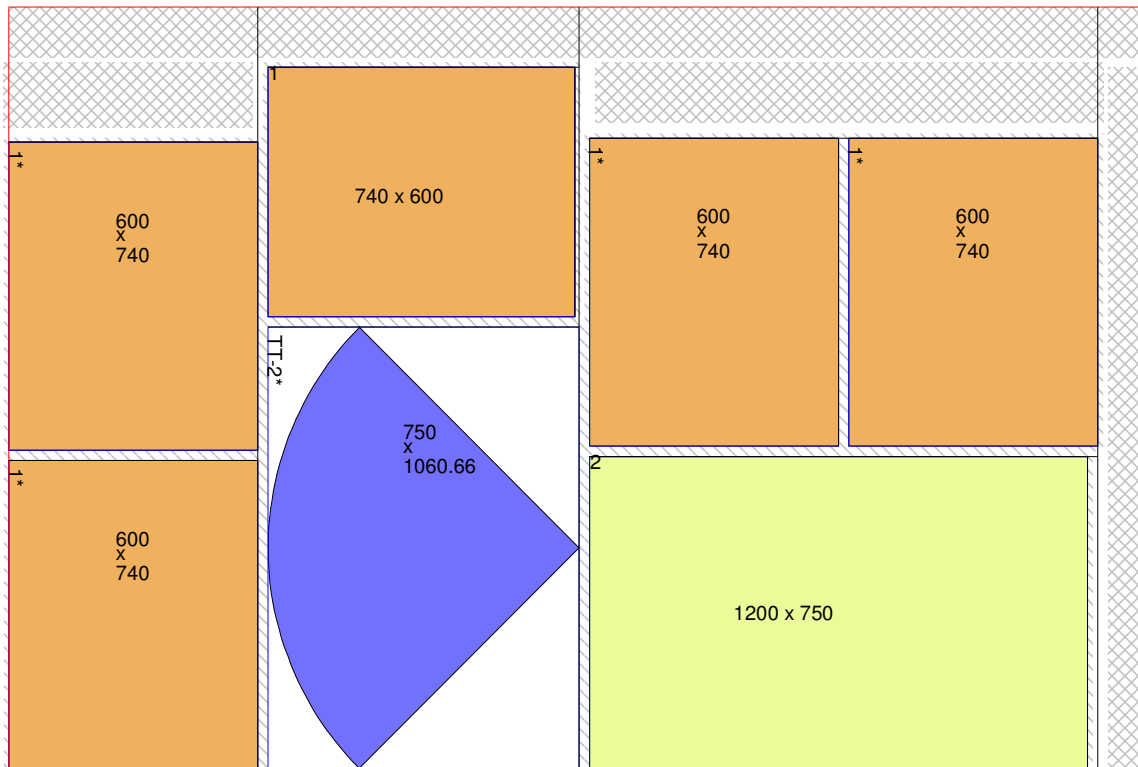
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
1	740	600	1	0.44	1	0/30	
2	1200	750	2	1.8	2	2/10	
4	600	600	1	0.36	1	0/4	
5	900	600	1	0.54	1	3/5	
TT-2	1060.66	750	1	0.44	1	0/5	
Total			6	3.59	6		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	600	0	600	1830
2	0	900	600	900
3	0	1525	600	1525
4	1375	0	1375	1830
5	625	1060.66	1375	1060.66
6	625	1685.66	1375	1685.66
7	1365	1085.66	1365	1685.66

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
8	2600	0	2600	1830
9	1400	750	2600	750
10	1400	1525	2600	1525



Layout 3 of 8(Stock:9 x 6 Dim:2743 x 1830 Qty:2)

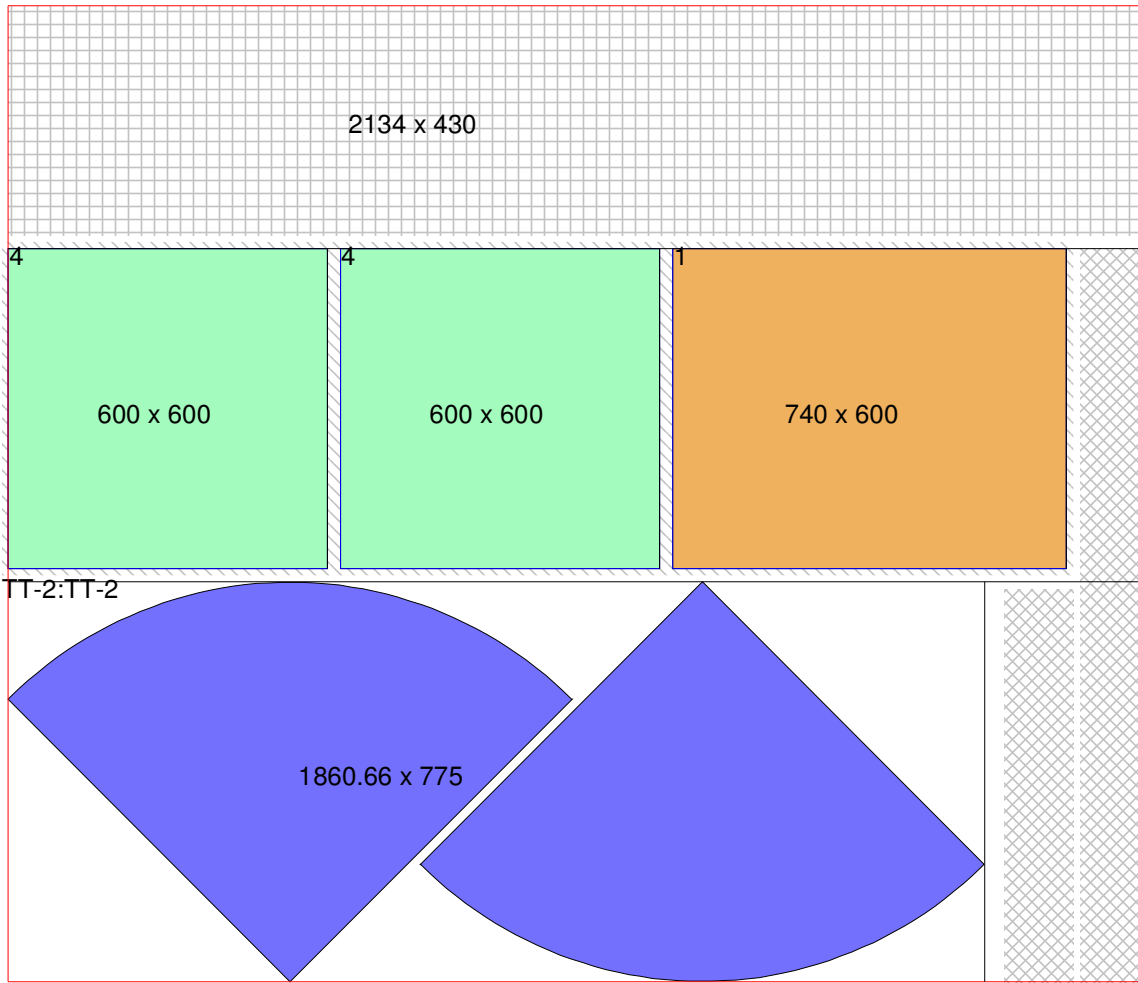
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
1	740	600	5	2.22	10	1/30	
2	1200	750	1	0.9	2	4/10	
TT-2	1060.66	750	1	0.44	2	1/5	
Total			7	3.56	14		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	600	0	600	1830
2	0	740	600	740
3	0	1505	600	1505
4	1375	0	1375	1830
5	625	1060.66	1375	1060.66
6	625	1685.66	1375	1685.66
7	1365	1085.66	1365	1685.66
8	2625	0	2625	1830
9	1400	750	2625	750

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
10	2600	0	2600	750
11	1400	1515	2625	1515
12	2000	775	2000	1515



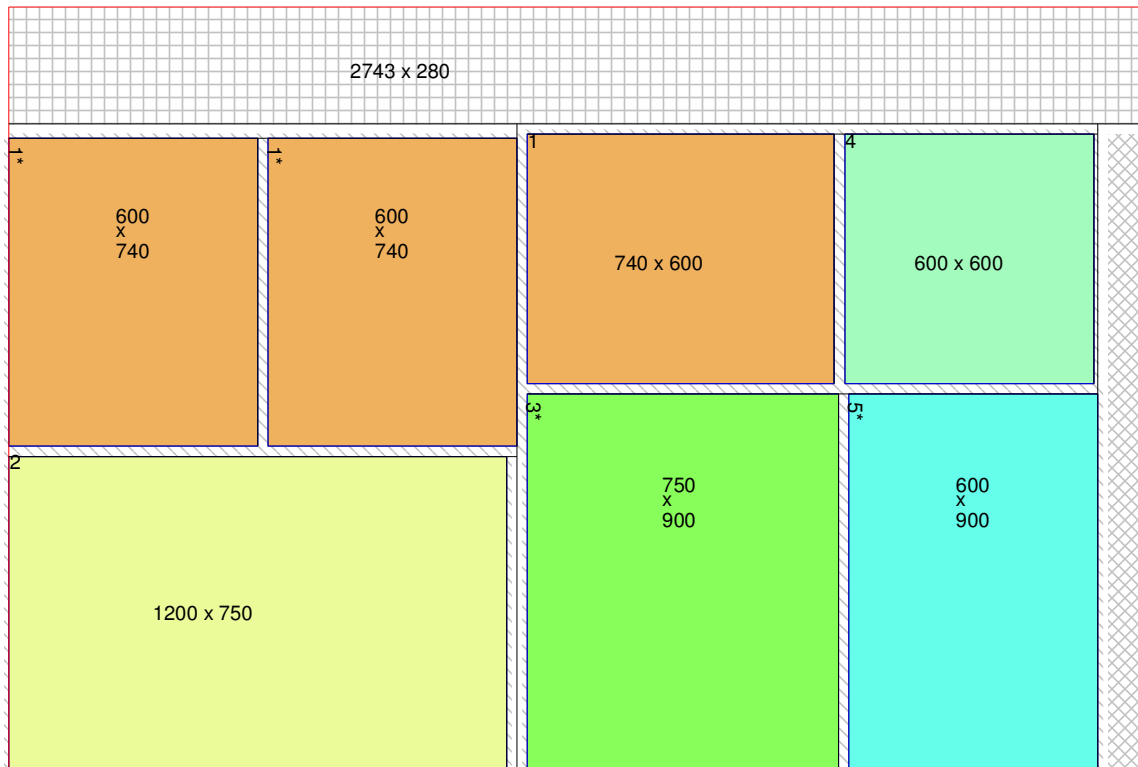
Layout 4 of 8(Stock:7 x 6 Dim:2134 x 1830 Qty:1)

Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
1	740	600	1	0.44	1	11/30	
4	600	600	2	0.72	2	1/4	
TT-2	1060.66	750	2	0.88	2*	3/5	
Total			5	2.05	5		
Offcuts							
Off_4_1	2134	430	1	0.92	1		
Total			1	0.92	1		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	750	2134	750
2	1835.66	0	1835.66	750
3	0	1375	2134	1375
4	600	775	600	1375
5	1225	775	1225	1375
6	1990	775	1990	1375



Layout 5 of 8(Stock:9 x 6 Dim:2743 x 1830 Qty:1)

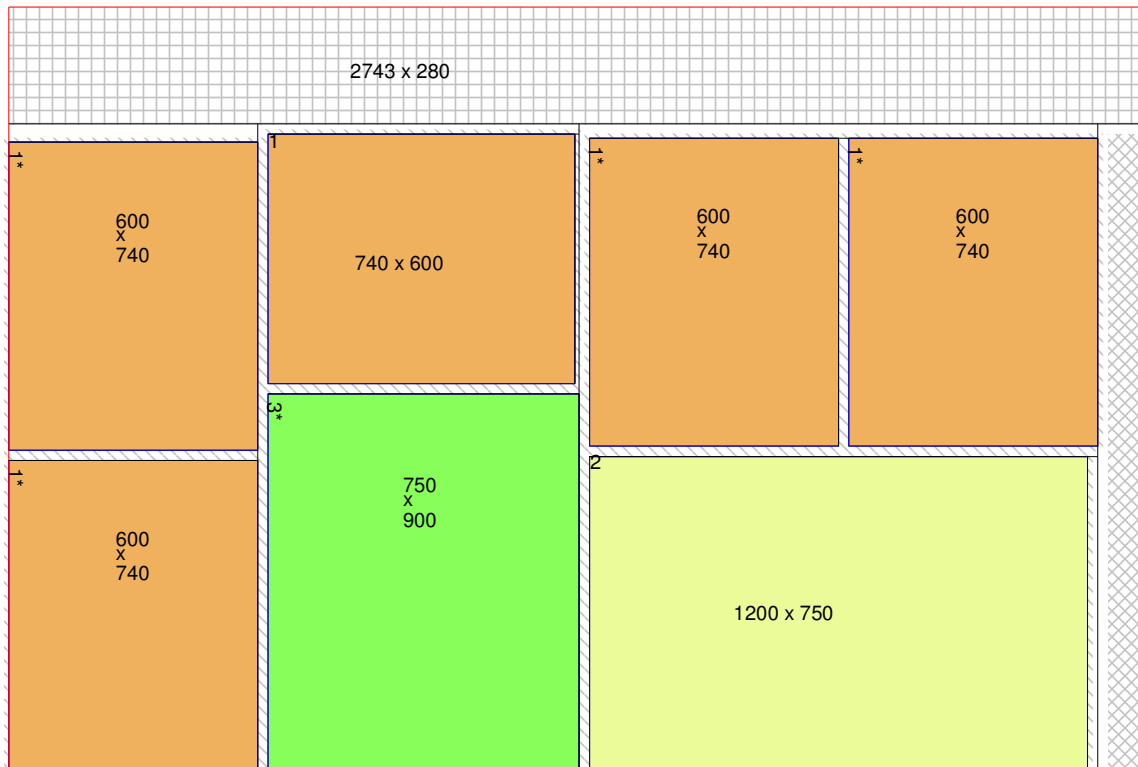
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
1	740	600	3	1.33	3	12/30	
2	1200	750	1	0.9	1	6/10	
3	900	750	1	0.68	1	1/5	
4	600	600	1	0.36	1*	3/4	
5	900	600	1	0.54	1*	4/5	
Total			7	3.81	7		
Offcuts							
Off_5_1	2743	280	1	0.77	1		
Total			1	0.77	1		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	1550	2743	1550
2	1225	0	1225	1550
3	0	750	1225	750
4	1200	0	1200	750

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
5	0	1515	1225	1515
6	600	775	600	1515
7	2625	0	2625	1550
8	1250	900	2625	900
9	2000	0	2000	900
10	1250	1525	2625	1525
11	1990	925	1990	1525
12	2615	925	2615	1525



Layout 6 of 8(Stock:9 x 6 Dim:2743 x 1830 Qty:3)

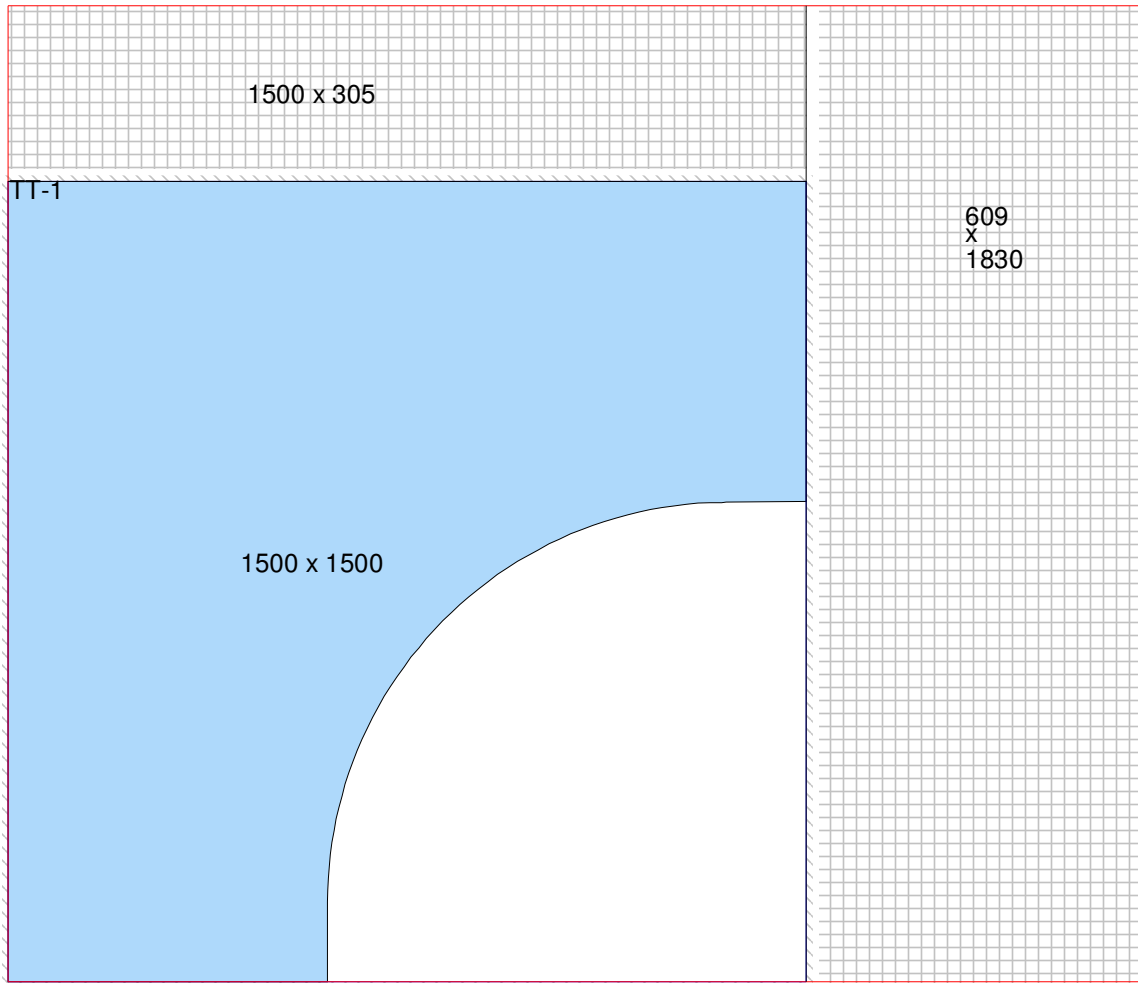
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
1	740	600	5	2.22	15*	15/30	
2	1200	750	1	0.9	3*	7/10	
3	900	750	1	0.68	3*	2/5	
Total			7	3.79	21		
Offcuts							
Off_6_1	2743	280	1	2.3	3		
Total			1	2.3	3		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	0	1550	2743	1550
2	600	0	600	1550
3	0	740	600	740
4	0	1505	600	1505
5	1375	0	1375	1550
6	625	900	1375	900

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
7	625	1525	1375	1525
8	1365	925	1365	1525
9	2625	0	2625	1550
10	1400	750	2625	750
11	2600	0	2600	750
12	1400	1515	2625	1515
13	2000	775	2000	1515



Layout 7 of 8(Stock:7 x 6 Dim:2134 x 1830 Qty:1)

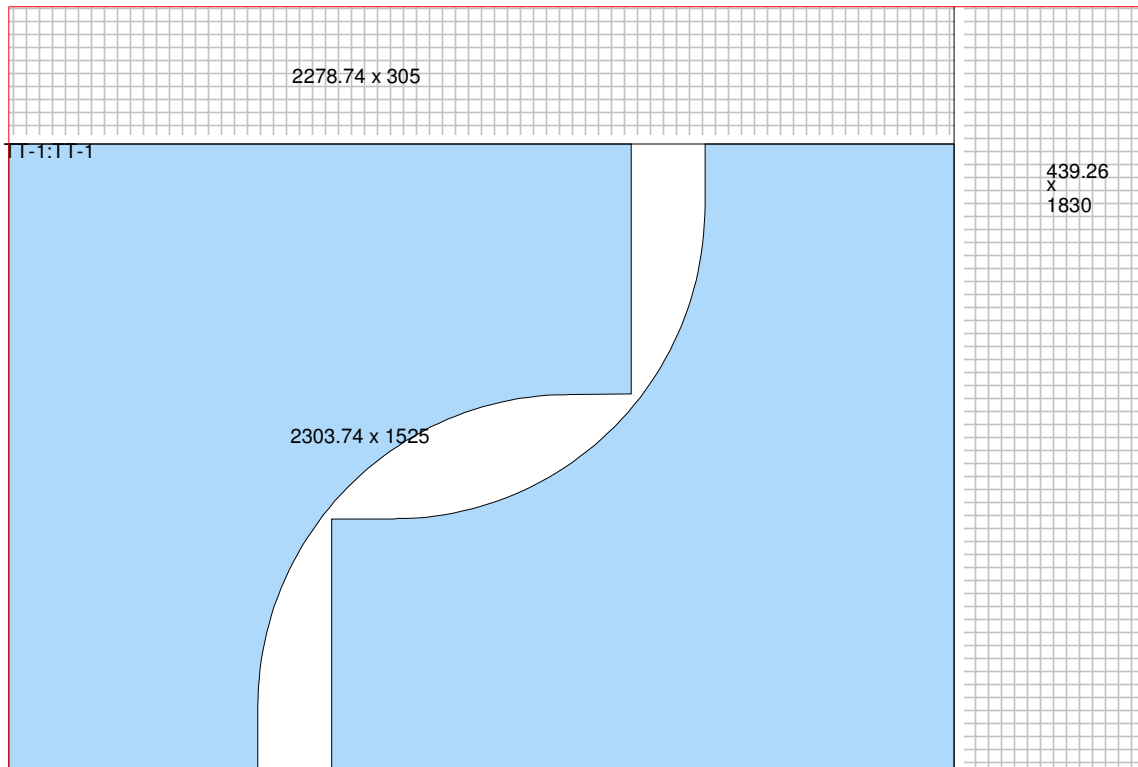
Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
TT-1	1500	1500	1	1.56	1	0/5	
Total			1	1.56	1		
Offcuts							
Off_7_1	1500	305	1	0.46	1		
Off_7_2	609	1830	1	1.11	1		
Total			2	1.57	2		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
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CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	1500	0	1500	1830
2	0	1500	1500	1500



Layout 8 of 8(Stock:9 x 6 Dim:2743 x 1830 Qty:2)

Bill Of Materials:

Name	Length	Width	Qty	Area	Total Qty.	Prod./Re qd.	Remarks
TT-1	1500	1500	2	3.12	4*	1/5	
Total			2	3.12	4		
Offcuts							
Off_8_1	2278.74	305	1	1.39	2		
Off_8_2	439.26	1830	1	1.61	2		
Total			2	3	4		

Cutting Instructions:

CutIndex	StartPt X	StartPt Y	EndPt X	EndPt Y
1	2278.74	0	2278.74	1830
2	0	1500	2278.74	1500